

BAAQMD Weather Factors, December 1999

Date Site	Min Temp (C)					Max Temp (C)					4-5am Ave Wind Speed (m/s)					4-5pm Ave Wind Speed (m/s)					Insolation (Ly/day)					Precip (mm)
	Ros	Kre	Ple	Car	Sma	Ros	Kre	Ple	Car	Sma	Ros	Kre	Ple	Car	Sma	Ros	Kre	Ple	Car	Sma	Ros	Bet	Liv	Alv	Sma	Ros
W 01	3.7	4.8	6.6	8.4	7.0	14.6	10.3	13.9	14.9	14.3	1.6	9.0	1.3	1.0	.8	1.4	5.1	3.1	4.5	4.9	237	242	260	228	.3	
T 02	3.8	5.0	4.4	7.8	6.7	14.7	10.7	13.8	14.6	14.4	1.3	6.7	1.3	1.2	1.8	2.9	6.1	3.0	4.5	4.3	226	199	185	206	1.0	
F 03	1.7	4.2	6.9	8.8	2.9	16.6	11.1	14.9	15.9	15.4	2.1	8.8	5.3	4.1	5.5	2.5	5.8	4.2	2.2	4.1	253	252	261	267	0	
S 04	.1	4.2	4.1	5.1	.2	14.6	9.3	13.2	15.6	17.8	.8	7.7	1.2	1.1	1.6	3.0	4.6	2.3	1.2	1.6	249	206	264	275	0	
S 05	-.1	5.6	2.2	4.9	.8	13.4	11.2	14.8	15.3	16.4	.8	1.9	1.1	1.4	1.3	1.0	3.7	2.4	2.7	3.1	189	217	239	254	0	
M 06	1.7	5.6	3.1	6.4	3.0	12.9	9.8	12.6	14.2	14.8	.8	1.4	1.2	1.2	1.8	2.2	7.2	2.9	3.5	5.0	103	169	171	186	0	
T 07	2.3	4.8	4.6	8.1	5.2	13.9	9.8	12.9	14.3	13.7	1.0	11.7	2.8	1.2	.9	3.1	6.9	3.3	5.3	4.0	233	236	184	168	0	
W 08	.1	4.6	1.7	4.4	1.1	11.7	7.9	12.2	13.9	13.8	.8	5.9	.9	1.0	.8	1.7	4.8	1.9	1.0	1.5	161	201	211	238	0	
T 09	4.1	3.0	5.9	7.7	4.5	12.2	8.6	10.8	13.3	10.3	1.5	5.1	3.5	1.8	1.6	3.5	4.3	3.0	2.6	2.0	169	177	188	127	9.8	
F 10	-.4	1.9	3.6	5.1	4.6	13.3	9.0	12.3	13.7	11.8	.9	6.0	3.0	1.6	2.5	3.7	6.1	2.9	3.8	5.1	248	256	263	265	0	
S 11	1.9	6.7	2.0	5.1	-.2	18.3	13.4	15.3	17.4	16.4	1.3	5.3	.8	2.0	1.0	1.6	3.3	2.1	1.5	2.4	244	244	258	262	0	
S 12	2.2	6.0	3.3	5.1	.7	14.2	11.7	14.7	14.4	16.6	.7	4.7	1.0	1.2	.5	1.9	5.7	2.3	1.3	1.1	179	204	225	245	0	
M 13	5.3	3.3	3.7	7.1	5.6	12.9	9.0	11.9	12.9	12.2	3.2	8.9	3.6	3.8	1.7	2.5	4.0	2.9	3.1	4.3	215	201	218	227	1.1	
T 14	2.0	5.2	1.7	3.8	-.1	15.8	11.7	14.3	16.1	15.1	1.6	4.9	1.2	1.1	1.2	2.6	2.5	1.6	2.1	3.9	234	242	254	253	0	
W 15	-.8	7.1	1.0	3.2	-.1	13.9	10.9	14.2	14.8	14.8	.6	3.8	.8	.6	1.3	2.0	2.7	2.9	1.6	3.6	230	233	243	256	0	
T 16	-1.6	6.6	.8	3.8	-.4	15.6	13.7	15.8	15.7	14.6	.9	6.2	1.0	2.0	1.4	1.4	1.9	1.7	1.6	3.4	233	238	218	220	0	
F 17	1.6	9.4	2.9	4.7	.8	17.2	16.5	18.3	17.3	19.2	1.2	4.6	.7	.8	.7	1.9	2.5	3.2	1.9	4.7	224	230	247	254	0	
S 18	2.1	7.3	3.4	6.9	1.8	17.0	11.7	13.6	14.6	15.0	.9	5.8	.8	1.2	1.1	2.7	5.4	1.8	1.7	5.0	205	163	120	243	0	
S 19	4.2	10.9	4.2	5.4	.4	25.3	16.4	20.0	22.3	22.1	2.7	8.2	.9	.9	.7	3.9	11.0	4.2	2.8	3.3	229	227	242	229	0	
M 20	5.1	10.3	11.0	9.1	3.7	20.7	16.2	18.6	20.6	22.7	2.1	11.9	4.9	1.0	1.3	3.5	8.6	3.8	2.5	3.2	239	190	266	259	0	
T 21	.8	11.1	4.9	6.7	2.1	21.8	16.4	20.3	22.7	20.2	.6	8.0	.8	.9	.9	3.2	9.0	3.4	1.3	2.9	237	212	258	254	0	
W 22	3.4	8.7	6.4	7.8	1.6	20.2	17.2	20.2	21.7	20.2	3.3	8.7	1.7	2.1	1.7	1.5	7.1	2.2	2.1	3.3	237	231	257	254	0	
T 23	.6	11.0	2.6	4.3	-.4	17.3	13.9	18.6	20.2	20.2	.8	5.0	.6	.8	.7	1.9	6.1	1.9	1.9	3.4	215	218	247	253	0	
F 24	1.3	7.7	2.1	5.4	-.3	16.5	13.3	17.4	19.6	18.5	.8	9.2	.8	1.1	.8	1.3	7.1	2.6	1.1	3.1	234	227	247	251	0	
S 25	-.1	9.4	1.3	4.0	-.4	16.8	14.8	17.5	19.3	18.7	.4	7.0	.7	1.2	.8	.8	5.5	1.6	1.3	2.4	227	218	254	233	0	
S 26	-1.0	9.8	1.7	3.7	-.6	15.7	14.0	15.2	17.4	19.5	.6	2.6	.8	1.7	1.3	1.8	4.8	2.3	.9	4.2	227	221	249	257	0	
M 27	-1.3	8.1	1.6	4.4	.1	16.8	14.8	16.8	19.2	22.1	.8	7.2	1.2	1.0	.9	2.4	2.1	2.8	.8	2.6	227	221	239	242	0	
T 28	-1.2	10.8	2.2	4.1	.4	17.7	16.4	19.6	22.3	20.3	1.0	7.0	.7	.7	.5	2.0	4.2	2.0	1.3	3.0	237	243	250	253	0	
W 29	-1.6	9.3	2.0	4.2	.1	15.9	13.8	16.7	18.0	19.7	1.2	1.7	.7	.8	.9	.5	5.2	2.5	1.6	3.0	235	229	254	256	0	
T 30	-2.2	7.7	1.6	3.7	-.1	15.0	12.2	15.3	16.6	16.9	1.2	5.4	.8	.5	.6	1.4	1.1	2.0	2.6	2.8	233	215	243	249	0	
F 31	.3	4.2	2.8	5.5	1.2	11.9	9.6	9.8	10.7	11.1	1.2	4.6	1.3	1.6	1.5	3.8	9.7	3.5	4.2	2.1	134	218	76	105	0	
Ave.	1.2	6.9	3.4	5.6	1.6	15.9	12.4	15.3	16.8	16.7	1.2	6.3	1.5	1.4	1.3	2.2	5.3	2.7	2.3	3.3	218	219	229	235	12.2	
Normal	2.3	5.3	4.6	6.9	2.2	14.0	10.4	13.5	15.0	14.6	1.6	6.6	1.8	1.9	1.6	2.4	5.8	2.9	2.6	2.9	166	165	---	188	196	---

--- = insufficient data

Site	Name	Elevation (m)	Temperature Normals are for the period:	Wind Speed Normals are for the period:	Insolation Normals are for the period:	Precipitation Normals are for the period:
Ros	= Santa Rosa	29.3	1988-present	1988-present	1990-present	1990-present
Bet	= Bethel Island	-1.5				
Kre	= Kregor Peak	577.4	1990-present	1990-present		
Ple	= Pleasanton	99.1	1992-present	1992-present		
Liv	= Livermore	150.0				
Car	= San Carlos	1.0	1992-present	1992-present		
Alv	= Alviso	1.0		1993-present		
Sma	= San Martin	29.0	1988-present	1988-present	1990-present	

BAAQMD High-Hour Ozone Concentrations (pphm),

December 1999

Date	BI	CC	FF	FR	GI	HA	LI	LG	MV	NP	OA	PT	RC	SF	SJ	SP	SL	SM	PA	SR	ST	VA	Dist
W 01	3.2	2.8		2.4			3.0		3.2	2.1	2.8	1.5	2.7	2.2				3.6	2.4	3.0	3.2	3.6	
T 02	3.4	3.5		2.3			2.8		3.1	2.1	3.1	2.2	2.5	2.8				3.2	2.3	3.1	3.1	3.8	
F 03	3.1	3.2		3.4			3.5		3.1	2.1	3.1	1.8	2.4	3.0				2.9	2.0	2.3	3.0	3.5	
S 04	2.2	2.5		2.5			2.0		2.9	2.3	1.9	2.0	1.5	1.3				2.0	1.9	1.5		2.9	
S 05	3.1	3.0		2.7			3.6		2.6	1.1	2.8	1.3	1.7	1.6				3.0	2.0	2.0	2.9	3.6	
M 06	2.4	2.4		1.8			2.3		1.5	.7	2.6	1.5	2.3	1.9				2.8	1.8	1.4	2.1	2.8	
T 07	3.3	3.7		3.2			3.3		3.0	2.7	3.0	2.3	2.8	3.0				3.6	2.2	3.0	3.1	3.7	
W 08	2.5	2.3		2.7			2.8		1.3	2.0	2.3	1.7	2.1	1.9				1.2	2.1	1.0	2.0	2.8	
T 09	2.8	2.9		2.6			2.6		2.3	2.6	2.4	2.3	2.8	2.7				2.7	2.8	2.5	2.3	2.9	
F 10	3.1	2.4		1.9			2.9		2.6	1.9	2.2	1.3	2.6	1.9				3.0	1.7	2.4	2.1	3.1	
S 11	2.4	2.2		2.2			2.6		3.1	1.7	1.9	1.3	1.3	2.0				2.7	2.1	2.7	1.6	3.1	
S 12	2.3	1.1		1.6			1.9		2.6	.9	1.9	1.5	2.4	1.3				2.6	2.0	1.7	2.4	2.6	
M 13	3.4	3.0		3.1			3.5		3.2	2.8	2.7	2.5	3.3	2.2				3.0	3.2			3.5	
T 14	3.3	2.3		1.2			3.5		3.0	.8	2.3	1.8	1.0	1.6				3.0	2.0	2.6	1.7	3.5	
W 15	1.9	2.4		.9			2.1		2.1	.6	2.1	.6		1.1				1.6	1.6	2.4	1.0	2.4	
T 16	2.4	2.6		1.1			2.0		2.0	1.1	2.2	.7	1.8	1.4				2.4	.8	.9	1.7	2.6	
F 17	1.8	1.1		1.1			1.6		1.4	.7	1.6	.5	.9	.6				1.3	1.1	1.0	1.2	1.8	
S 18	1.2	1.5		1.9			2.6		.7	.9	1.4	1.0	1.0	1.0				1.7	.6	1.9	1.1	2.6	
S 19	2.5	3.1		2.8			2.9		3.5	2.4	2.8	2.1	2.3	2.8				3.5	3.0	3.2	3.0	3.5	
M 20	2.6	2.9		3.4			3.1		2.8	2.3	2.1	1.7	1.4	2.9				2.2	1.8	3.1	1.7	3.4	
T 21	2.8	3.5		3.4			3.6		4.0	3.5	2.7	1.5	2.8				2.8	2.1	3.7	2.7	4.0		
W 22	3.1	3.4		3.1			3.0		4.0	3.6	3.0	1.3	2.7	1.3				3.0	2.0	4.1	2.4	4.1	
T 23	1.6	2.6		2.4			3.1		2.7	.6	3.1	.5	.7	2.2				1.1	1.2	1.5	1.6	3.1	
F 24	3.8	4.0		2.3			3.8		1.6	.8	3.2	.8	1.4	.9				3.3	2.6	1.1	2.4	4.0	
S 25	3.0	3.1		3.5			4.0		1.9	1.5	2.3	1.4	2.0	1.9				3.1	2.4	2.3	2.2	4.0	
S 26	3.9	4.8		3.9			4.6		3.1	4.6	3.3	1.6	3.9	1.7				5.1	3.6	2.2	3.8	5.1	
M 27	2.6	3.6		3.7			3.8		2.9	.6	2.3	1.1	1.1	.8				3.7	3.0	1.0	2.4	3.8	
T 28	2.5	2.9		1.1			3.3		1.5	2.1	.5	.6	.7				1.6	1.6	.7	1.5	3.3		
W 29	2.3	2.1		1.4			2.2		1.3	2.2	.3	1.0	.7				2.9	.9	1.4	1.4	2.9		
T 30	2.6	2.6		1.2			2.9		1.8	2.1	2.4	1.3	.6				2.8	3.2	1.4	2.7	3.2		
F 31	2.4	2.8		2.5			2.5		1.7	1.8	2.1	1.7	2.3	1.7				2.8	1.7	1.5	2.2	2.8	
Max	3.9	4.8		3.9	2.8		4.6	2.7	3.8	4.0	4.6	3.3	2.5	3.9	3.0	1.8		2.8	5.1	3.6	4.1	3.8	5.1
D>12.4	0	0		0	0		0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	
Mean	2.7			2.8			2.9		3.4		1.8		1.4		1.7			2.7		2.1			
	2.8			2.4			2.4		2.5		2.4		2.0		1.8			2.8		2.0		2.2	

BAAQMD Highest Eight-Hour Average Ozone Concentrations (pphm), December 1999

Date	BI	CC	FF	FR	GI	HA	LI	LG	MV	NP	OA	PT	RC	SF	SJ	SP	SL	SM	PA	SR	ST	VA	Dist
W 01	2.8	2.3		1.8	2.0		2.5	1.8	2.4	2.3	1.6	2.2	.9	2.1	1.7	1.2		1.9	3.0	1.5	2.0	2.0	3.0
T 02	2.7	2.6			1.1		2.3	1.8	2.5	2.0	1.2	2.5	1.6	1.9	1.8			2.5	1.7	2.3	2.2	2.7	
F 03	3.0	2.6		2.8			2.9			2.9	1.4	2.9	1.5	1.8	2.3			2.6	1.5	1.8	2.7	3.0	
S 04	1.4	1.2		1.6			1.2			1.9	1.6	1.1	1.2	1.2	.9			1.9	1.4	1.0		1.9	
S 05	2.5	2.0			1.5		2.6			1.6	.6	2.2	.9	1.1	1.0			1.9	1.5	1.1	2.3	2.6	
M 06	2.1	2.0			1.3		2.3			1.0	1.1	2.3	1.2	1.9	1.3			2.2	1.0	.9	1.9	2.3	
T 07	3.1	3.0		2.5			2.5			1.6	1.7	2.8	1.9	2.3	2.2			3.2	1.8	2.5	2.7	3.2	
W 08	2.0	1.6		1.4			2.1			.8	.9	1.7	1.1	1.7	1.3			.8	1.8	1.1	1.2	2.1	
T 09	2.0	1.9		1.9			1.8			1.8	1.5	1.3	1.4	1.8	1.6			2.4	1.5	1.8	1.9	2.4	
F 10	2.6	1.9		1.3			2.0			2.5	1.3	1.8	.9	1.4	1.5			2.4	1.3	1.9	1.5	2.6	
S 11	1.9	1.4		1.7			2.2			2.5	.5	1.5	.8	.7	1.3			2.0	.9	1.7	1.1	2.5	
S 12	1.5	2.0		1.4			2.0			1.7	1.7	2.0	1.3	2.6	.8			2.9	1.7	1.8	2.2	2.9	
M 13	2.9	2.5		2.3			2.5			2.6	1.8	2.1	1.4	2.4	1.6				2.0	2.3			2.9
T 14	2.7	1.4		.7			1.5			2.0	.4	1.8	1.0	.7	.9			1.9	1.1	1.8	.9	2.7	
W 15	1.1	1.4		.7			1.1			1.2	.3	1.4	.3		.5			.9	.8	1.0	.6	1.4	
T 16	1.8	1.4		.8			1.0			1.2	.4	1.4	.3	.9	.6			1.6	.5	.6	.9	1.8	
F 17	.5	.7		.8			.8			.8	.4	.8	.2	.5	.3			.9	.5	.5	.6	.9	
S 18	1.6	.7		1.1			2.6			1.4	.4	.8	.5	.5	.4			.9	.3	1.2	.6	2.6	
S 19	1.8	2.4		2.7			2.6			3.1	2.0	2.5	1.3	1.3	2.6			3.0	2.5	3.0	2.7	3.1	
M 20	1.8	2.2		2.9			2.5			2.2	2.0	1.6	1.2	1.0	1.9			2.0	1.0	2.0	1.4	2.9	
T 21	2.3	3.0		3.0			2.4			3.9	3.3	2.2	1.0	2.2				2.0	1.3	3.0	1.2	3.9	
W 22	2.3	2.5		1.5			1.7			2.8	2.8	2.2	.8	1.4	.6			2.5	.9	1.9	1.5	2.8	
T 23	.8	1.4		1.4			1.5			1.3	.3	1.2	.3	.4	1.2			.7	.6	.6	.9	1.5	
F 24	2.8	2.3		1.2			2.6			1.1	.4	2.0	.3	.8	.5			2.1	1.2	.5	1.5	2.8	
S 25	2.2	2.0		2.7			3.0			1.4	.8	1.5	.8	1.3	1.2			2.6	1.4	1.4	1.7	3.0	
S 26	2.8	3.0		2.9			2.8			1.9	2.3	2.2	.8	2.4	1.1			3.8	2.0	1.2	2.6	3.8	
M 27	1.8	2.6		2.1			3.0			1.4	.3	1.4	.5	.8	.4			3.2	2.0	.5	1.6	3.2	
T 28	1.8	1.5		.8			2.2			.8	1.4	.2	.4	.4				1.1	.8	.4	1.1	2.2	
W 29	1.5	1.2		1.1			1.2			.4	1.2	.2	.5	.4				1.8	.5	.7	.8	1.8	
T 30	1.7	1.3		.9			1.8			1.2		1.2	1.4	.7	.3			2.0	1.6	.7	1.4	2.0	
F 31	2.1	2.5		2.0			2.3			1.2	1.4	1.9	1.5	2.1	1.5			2.4	1.3	1.0	2.0	2.5	
Max	3.1	3.0		3.0	2.0		3.0	1.8	2.5	3.9	3.3	2.9	1.9	2.6	2.6	1.2		1.9	3.8	2.5	3.0	2.7	3.9
D>8.4	0	0		0	0		0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	
Mean	2.1			2.0			2.1		2.4		1.2		.9		1.1			2.1		1.4			
	2.0			1.7			1.8		1.8		1.8		1.4		1.2			1.9		1.3		1.6	

BAAQMD Highest Eight-Hour Average Carbon Monoxide Concentrations (ppm), December 1999

Date	BI	CC	FR	LI	NP	OA	PT	RC	SF	SJ	PA	SR	ST	VA	Dist
W 01	.5	1.3	1.4		2.0	1.6	.9	1.4	1.5	2.3	1.2	1.0	1.5	2.7	2.7
T 02	.6	1.8	1.7		1.8	1.5	.6	1.2	1.6	2.3	1.2	1.3	1.2	2.3	2.3
F 03	.5	1.6	1.1		1.5	2.3	.4	1.2	1.5	1.7	.9	1.9	1.8	1.9	2.3
S 04	1.2	1.6	1.1		1.8	2.4	2.0	1.6	1.9	3.0	1.0	1.8	1.4		3.0
S 05	.9	1.5	1.8		2.0	2.0	1.3	1.3	1.8	3.0	1.2	1.3	1.3	2.5	3.0
M 06	.8	1.4	1.2		1.6	1.8	1.7	1.0	1.4	2.4	1.3	1.3	2.2	1.7	2.4
T 07	.5	1.0	1.2		1.7	.8	.9	1.1	.7	2.3	.6	.9	1.5	2.6	2.6
W 08	.6	1.6	1.8		2.1	2.3	1.9	2.3	1.8	3.7	1.2	1.3	1.7	3.1	3.7
T 09	.5	1.3	.9		1.1	1.1	.7	1.0	.9	1.2	.8	1.2	1.0	1.6	1.6
F 10	.4	1.4	1.5		1.5	1.0	.7	2.3	1.0	2.1	.5	1.3	1.0	2.3	2.3
S 11	.7	2.2	1.7		2.6	4.2	1.6	2.3	2.6	2.6	1.3	1.8	1.4	1.6	4.2
S 12	.7	1.3	1.3		1.3	2.9	1.5	2.0	1.8	1.7	.8	1.2	1.1	.8	2.9
M 13	.4	1.5	1.0		1.2	1.0	.8	1.3	.9	1.8		.8	1.0		1.8
T 14	.7	2.3	1.9		2.3	3.4	2.3	2.5	2.3	3.6	1.3	1.8	1.8	4.4	4.4
W 15	1.3	2.4	2.3		2.2	4.3	2.2	3.8		3.6	1.3	1.9	1.7	4.6	4.6
T 16	1.2	2.0	1.7		2.7	3.5	3.0	3.7	3.2	5.0	1.2	2.3	1.9	4.1	5.0
F 17	1.2	2.3	2.4		3.3	3.6	2.6	3.6	1.9	5.1	1.5	2.2	2.3	3.6	5.1
S 18	.9	3.1	2.1		2.7	3.7	1.9	2.1	3.3	5.2	1.4	1.9	2.4	4.1	5.2
S 19	.8	1.6	.6		.8	2.3	1.0	1.6	2.8	2.2	.6	1.8	1.1	2.0	2.8
M 20	1.0	1.0	.5		1.9	2.1	1.4	1.5	3.2	3.1	1.4	2.2	2.6	2.6	3.2
T 21	1.0	2.2	.8		1.9	1.7	2.0	2.7	2.0		1.3	2.1	2.3	1.9	2.7
W 22	1.0	1.7	2.3		2.9	2.8	1.0	2.6	2.7	4.6	1.4	2.5	2.0	3.1	4.6
T 23	1.4	2.4	2.5		2.9	2.7	2.5	3.5	3.1	4.4	1.2	2.9	2.1	4.4	4.4
F 24	1.3	2.5	1.7		2.5	4.5	3.0	2.8	1.8	4.1	1.3	2.4	1.9	5.5	5.5
S 25	1.0	2.6	2.0		2.2	3.3	2.4	2.4	2.2	3.2	1.2	2.3	1.7	4.7	4.7
S 26	.9	2.1	1.4		1.9	3.3	2.4	2.5	1.9	4.7	1.2	1.4	1.6	4.5	4.7
M 27	1.1	2.4	1.9		2.4	5.2	3.0	2.6	3.1	4.7	1.1	2.0	2.4	2.7	5.2
T 28	1.0	2.6	2.7		2.7	4.0	2.5	3.5	3.4	4.5	1.3	2.1	2.0	4.9	4.9
W 29	1.4	2.4	1.8		2.8	4.2	2.9	3.6	2.7	3.8	1.1	1.5	2.2	2.6	4.2
T 30	1.3	2.7	2.5		2.8	3.0	3.3	3.5	1.6	3.1	1.1	1.8	2.1		3.5
F 31	.9	1.7	1.5		1.3	1.6	.9	1.3	.7	2.0	.8	1.3	1.2	2.3	2.3
Max	1.4	3.1	2.7		3.3	5.2	3.3	3.8	3.4	5.2	1.5	2.9	2.6	5.5	5.5
D> 9	0	0	0		0	0	0	0	0	0	0	0	0	0	0
Mean	.9	1.6			2.1	1.8		2.0		1.1		1.7		3.0	
		1.9			2.7	2.3		3.2		1.7					

BAAQMD High-Hour Nitrogen Dioxide Concentrations (pphm), December 1999

Date	BI	CC	FR	LI	NP	PT	RC	SF	SJ	PA	SR	ST	VA	Dist
W 01	2	4	4	4	3	4	4	5	5	4	3	3	3	5
T 02	2	4	4	4	3	3	4	5	4	4	4	3	4	5
F 03	2	4	4	3	3	2	4	4	4	3	4	3	4	4
S 04	3	4	4	3	3	4	4	4	5	3	4	3		5
S 05	2	4	5	4	4	4	4	4	5	4	4	3	3	5
M 06	3	3	4	3	2	3	3	4	5	3	3	3	3	5
T 07	3	3	4	4	3	3	4	4	4	3	4	3	3	4
W 08	3	3	5	4	3	4	4	5	5	3	3	3	4	5
T 09	2	3	4	4	3	3	4	4	4	4	4	3	4	4
F 10	1	3	4	4	2	3	3	4	4	3	3	3	3	4
S 11	2	3	4	3	3	3	4	4	4	3	3	3	3	4
S 12	3	4	4	4	3	3	4	4	5	3	4	3	3	5
M 13	2	4	4		3	4	4	4	5		3	3		5
T 14	2	4	5		4	4	5	5	5	4	5	3	4	5
W 15	4	4	6	5	4	4	5		6	4	4	4	4	6
T 16	3	5	6	5	4	4	4	5	8	3	4	3	5	8
F 17	4	4	7	5	4	4	6	5	7	4	4	3	4	7
S 18	4	3	4	3	3	3	3	4	7	4	2	2	3	7
S 19	2	4	3	2	2	3	3	4	3	2	3	2	3	4
M 20	3	5	2	4	4	4	4	6	5	4	4	3	4	6
T 21	3	5	4	5	3	4	5	6		4	4	4	5	6
W 22	3	5	5	6	5	5	5	6	6	4	6	5	4	6
T 23	4	5	6	6	5	5	6	7	7	5	6	5	5	7
F 24	3	5	6	5	4	5	5	5	7	4	4	4	5	7
S 25	3	4	5	4	3	4	5	6	6	4	4	4	4	6
S 26	3	5	5	5	5	5	5	7	6	5	5	5	6	7
M 27	3	5	6	5	4	5	6	7	7	4	5	4	4	7
T 28	3	5	7	7	4	4	6	8	7	4	5	5	5	8
W 29	4	5	6	5	4	5	5	7	7	4	5	5	5	7
T 30	4	5	6	6	4	4	6	5	8	4	5	4	5	8
F 31	3	3	4	4	3	4	3	4	4	4	4	3	4	4
Max	4	5	7	7	5	5	6	8	8	5	6	5	6	8
D> 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	2.8		4.6		3.4		4.4		5.4		4.0		4.0	
		4.0		4.3		3.8		4.9		3.7		3.5		

BAAQMD 24-Hour 10-micron Suspended Particulate Concentrations (ug/m³), December 1999
Sampling is done on a US EPA mandated once every 6 days schedule

Date BI CC FR LI NP RC SF SJ TR SR ST VA Dist

W 01
T 02 10 18 22 21 20 24 21 29 24 23 19 23 29
F 03
S 04 26 26

S 05
M 06
T 07
W 08 19 18 24 25 31 31 30 35 27 20 23 35
T 09
F 10 16 16
S 11

S 12
M 13
T 14 13 20 27 29 23 32 38 35 29 24 23 31 38
W 15
T 16
F 17
S 18

S 19
M 20 57 18 15 34 33 28 42 26 35 28 46 57
T 21
W 22
T 23
F 24
S 25

S 26 61 62 50 65 53 58 69 64 50 64 54 84 84
M 27
T 28
W 29 58 58
T 30
F 31

Max 61 62 50 65 53 58 69 64 58 64 54 84 84
D> 50 2 1 0 1 1 1 1 1 1 1 1 1 3

Mean 32 27 28 35 32 35 40 38 36 33 29 40

BAAQMD 24-Hour Average Sulfur Dioxide Concentrations (ppb), December 1999

Date	BI	CC	CR	MA	PT	SF	PA	VA	Dist
W 01	0	3	1	1	1	2	2	1	3
T 02	0	2	2	1	1	2	2	2	2
F 03	0	2	2	1	1	2	1	1	2
S 04	1	2	3	2	1	3	3		3
S 05	1	3	4	3	2	4	4	2	4
M 06	2	2	2	2	2	2	2	2	2
T 07	1	1	1	1	2	2	1	1	2
W 08	1	2	3	2	2	3	3	2	3
T 09	0	1	2	1	2	2	2	2	2
F 10	0	2	1	1	2	2	1	1	2
S 11	0	3	6	2	2	5	2	3	6
S 12	1	3	4	3	2	4	4	1	4
M 13	1	3	1	1	2	2			3
T 14	1	2	6	3	2	5	3	5	6
W 15	1	2	5	3	2		4	4	5
T 16	1	3	6	4	2	4	3	3	6
F 17		2	10	4	2	5	6	4	10
S 18	1	2	5	3	1	3	4	3	5
S 19	0	1	4	3	2	4	2	2	4
M 20	1	1	6	3	2	4	4	2	6
T 21	1	1	6	3	1	5	5	2	6
W 22	1	2	6	4	3	3	4	1	6
T 23	1	1	11	4	2	6	6	4	11
F 24	1	1	7	3	2	5	5	3	7
S 25	1	1	8	3	2	4	4	3	8
S 26	1	1	7	2	1	4	4	3	7
M 27	1	1	5	3	2	4	4	2	5
T 28	1	1	10	3	2	5	4	3	10
W 29	1	2	8	2	2	5	5	2	8
T 30	1	1	5	1	2	4	4	3	5
F 31	1	1	2	1	2	2	3	3	3
Max	2	3	11	4	3	6	6	5	11
D> 50	0	0	0	0	0	0	0	0	0
Mean	.8	1.8	4.8	2.4	1.8	3.6	3.4	2.4	

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Station	abbr	California Stds.				National Stds.			PM10 Ann. Average	PM10 Ann. Geo. Mean
		O3-1hr	NO2	SO2	PM10*	O3-1hr	O3-8hr	CO		
Bethel Island	BI	0	0	0	2	0	0	0	25.4	21.2
Concord	CC	0	0	0	1	0	0	0	20.9	18.2
Crockett	CR				0					
Fairfield	FF									
Fremont	FR	0	0		0	0	0	0	24.3	21.9
Gilroy	GI	0				0	0			
Hayward	HA									
Livermore	LI	0	0		1	0	0	0	25.7	22.7
Los Gatos	LG	0				0	0			
Martinez	MA				0					
Mountain View	MV	0				0	0			
Napa	NP	0	0		1	0	0	0	18.6	16.3
Oakland	OA	0				0	0	0		
Pittsburg	PT	0	0	0		0	0	0		
Redwood City	RC	0	0		1	0	0	0	25.1	22.4
San Francisco	SF	0	0	0	1	0	0	0	26.4	22.7
San Jose	SJ	0	0		1	0	0	0	28.7	25.3
SJ Piedmont	SP	0				0	0			
SJ Tully Road	TR				1			0	25.4	21.7
San Leandro	SL									
San Martin	SM	0				0	0			
San Pablo	PA	0	0	0		0	0	0		
San Rafael	SR	0	0		1	0	0	0	22.0	19.5
Santa Rosa	ST	0	0		1	0	0	0	21.4	19.6
Vallejo	VA	0	0	0	1	0	0	0	19.5	16.4
District	Dist	0	0	0	3	0	0	0		

*PM10 is sampled once every 6 days

AMBIENT AIR QUALITY STANDARDS

Pollutant	Time	California Standards	National Standards	Method
Ozone	1 Hour	9 pphm	12 pphm	Ethylene
	8 Hour	-	8 pphm	Chemiluminescence
Carbon Monoxide	8 Hour	9.0 ppm	9 ppm	Non-dispersive Infrared
	1 Hour	20 ppm	35 ppm	Spectroscopy (NDIR)
Nitrogen Dioxide	Annual Average	-	5.3 pphm	Gas Phase
	1 Hour	25 pphm	-	Chemiluminescence
Sulfur Dioxide	Annual Average	-	30 ppb	Pararosoaniline
	24 Hour	50 ppb	140 ppb	
Suspended Part. Matter (PM10)	Annual Average	-	50 ug/m ³	Size Selective Inlet
	Ann. Geo. Mean	30 ug/m ³	-	High Volume Sampler
	24 Hour Average	50 ug/m ³	150 ug/m ³	

Number of days when standards were exceeded by Station, Annual 1999

Station	abbr	California Stds.				National Stds.			PM10 Ann. Average	PM10 Ann. Geo. Mean
		O3-1hr	NO2	SO2	PM10*	O3-1hr	O3-8hr	CO		
Bethel Island	BI	5	0	0	6	1	5	0	0	25.4
Concord	CC	8	0	0	3	2	6	0	0	20.9
Crockett	CR				0					18.2
Fairfield	FF	9				1	4			
Fremont	FR	3	0		2	1	1	0	0	24.3
Gilroy	GI	3				0	0			
Hayward	HA	4				0	1			
Livermore	LI	14	0		3	2	5	0	0	25.7
Los Gatos	LG	4				0	1			
Martinez	MA				0					
Mountain View	MV	7				0	1			
Napa	NP	4	0		2	0	1	0	0	18.6
Oakland	OA	0				0	0	0		
Pittsburg	PT	2	0	0		0	1	0		
Redwood City	RC	0	0		3	0	0	0	0	25.1
San Francisco	SF	0	0	0	6	0	0	0	0	26.4
San Jose	SJ	3	0		5	0	0	0	0	28.7
SJ Piedmont	SP	2				0	0			25.3
SJ Tully Road	TR				4			0	0	21.7
San Leandro	SL	3				0	0			
San Martin	SM	7				1	3			
San Pablo	PA	1	0	0		0	0	0		
San Rafael	SR	2	0		2	0	0	0	0	22.0
Santa Rosa	ST	1	0		1	0	0	0	0	19.5
Vallejo	VA	4	0	0	3	0	1	0	0	21.4
District	Dist	20	0	0	12	3	9	0	0	19.5
										16.4

*PM10 is sampled once every 6 days

AMBIENT AIR QUALITY STANDARDS

Pollutant	Time	California Standards	National Standards	Method
Ozone	1 Hour	9 pphm	12 pphm	Ethylene
	8 Hour	-	8 pphm	Chemiluminescence
Carbon Monoxide	8 Hour	9.0 ppm	9 ppm	Non-dispersive Infrared
	1 Hour	20 ppm	35 ppm	Spectroscopy (NDIR)
Nitrogen Dioxide	Annual Average	-	5.3 pphm	Gas Phase
	1 Hour	25 pphm	-	Chemiluminescence
Sulfur Dioxide	Annual Average	-	30 ppb	Pararosoaniline
	24 Hour	50 ppb	140 ppb	
Suspended Part. Matter (PM10)	Annual Average	-	50 ug/m ³	Size Selective Inlet
	Ann. Geo. Mean	30 ug/m ³	-	High Volume Sampler
	24 Hour Average	50 ug/m ³	150 ug/m ³	

	NO2 Annual Ave.	SO2 Annual Ave.	PM10* AGM
Station	pphm	ppb	ug/m3
Bethel Island	1.1	1.4	21.2
Concord	1.8	1.7	18.2
Crockett			3.0
Fremont	2.2		21.9
Livermore	2.0		22.7
Martinez		1.7	
Napa	1.4		16.3
Pittsburg	1.5	1.8	
Redwood City	1.9		22.4
San Francisco	2.1	2.0	22.7
San Jose	2.6		25.3
SJ Tully Road			21.7
San Pablo	1.4	2.2	
San Rafael	1.8		19.5
Santa Rosa	1.4		19.6
Vallejo	1.4	1.4	16.4

*PM10 is sampled once every 6 days

Ambient Air Quality Standards

Pollutant	Time	Standard
Nitrogen Dioxide (NO2)	Annual Average	5.3 pphm
Sulfur Dioxide (SO2)	Annual Average	30 ppb
Suspended Particulate (PM10)	Annual Geometric Mean (AGM)	30 ug/m3